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I N D E X

products	pages
BR-864 8-Track Digital Studio	10-11
Cube-30 Bass Amplifier	8-9
F-100-BK Digital Piano	6-7
RD-170 Digital Piano	4-5
RS-70/-50 Synthesizers	2-3

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NEW PRODUCT CATALOG

2003 VOL. 2

RS-70/-50 Synthesizers

Roland®

Just Play.

Roland's new RS-70 and RS-50 Synthesizers are designed so musicians can forget about MIDI and focus on playing. Both models sport an all-new collection of CD-quality sounds, cool performance features and simple Direct Access buttons for selecting Patches—all at an entry-level price. The flagship RS-70 even includes a Loop Sequencer that takes the mystery out of multi-track recording.

GENERAL MIDI2 V-LINK



*Product pictured are prototype models. Actual product appearance may be subject to change.

- Affordable 61-note synthesizers with easy access to Roland's latest sounds
- Hundreds of all-new Patches based on CD-quality waveforms
- Direct Access Buttons permit easy sound selection by category
- New Loop Sequencer simplifies recording—just choose a sound and go! (RS-70)
- Phrase/Arpeggio Generator (programmable on RS-70) and Multi Chord Memory
- Rhythm Guide metronome with preset patterns and several variations (RS-50)
- D Beam Controller for realtime control using an infrared beam of light
- Built-in 3.5" floppy drive for direct SMF playback from disk (RS-70)
- V-LINK function for controlling Edirol video equipment (RS-70)
- Includes editor software for Mac and PC
- Onboard USB-MIDI interface (RS-70)

Outstanding New Sounds

Make no mistake. The RS-70 and -50 are full of new sounds. And not just new Patches, but an entirely new set of waveforms sampled at 44.1kHz. Put simply, these keyboards sound amazing. From the delicate nuances of the acoustic piano and Rhodes Patches to the rich tones of the strings and new synthesizer sounds, you'll immediately hear the difference. Bundled editor software makes it easy to dive in and program your own sounds.

- RS Editor:
Performance Mixer Window



Easy Instrument-Based Sequencing

Instead of using complicated concepts like MIDI channels and tracks, the RS-70's Loop Sequencer is based on sounds. To create a sequence, simply choose a sound and record. As the recording loops, additional sounds can be selected and overdubbed until all parts are entered. Realtime and step recording are both supported, along with Microscope editing.



Made for Performance

With the new Multi Chord Memory function, musicians can play a variety of complex chords using a single note. Or trigger phrases at the touch of a key using the Phrase/Arpeggio Generator, which on the RS-70, can be fully programmed and even recorded to the sequencer. The RS-50 also features a Rhythm Guide metronome with preset rhythm patterns in a variety of styles.

Loaded with Extras

Both the RS-70 and RS-50 feature Roland's popular D Beam Controller for controlling functions like pitch or filter cutoff using an infrared beam of light. The D Beam can also be used to control Roland's unique Active Expression feature, which makes it easy to fade in a second sound or change the volume and timbre. The RS-70 also includes a built-in floppy drive for directly playing GM/GM-2-compatible Standard MIDI Files—plus Roland's exclusive V-LINK technology for triggering video clips*.

*V-LINK requires the Edirol DV-7PR Digital Video Workstation (sold separately) with software version 1.50 or higher.



RS-70/-50 Specifications

■ Keyboard 61 keys (with velocity) ■ Maximum Polyphony 64 voices ■ Multitimbral Parts 16 parts ■ Wave Memory (16-bit linear equivalent) RS-70: 64MB, RS-50: 32MB ■ Preset Memory Patches: RS-70: 768 (RS-70 Original: 512, GM2: 256), RS-50: 512 (RS-50 Original: 256, GM2: 256), Rhythm Sets: RS-70: 30 (RS-70 Original: 21, GM2: 9), RS-50: 20 (RS-50 Original: 11, GM2: 9) ■ User Memory Patches: 128, Rhythm Sets: 16 ■ Effects Multi-effects: 47 types, Reverb: 8 types, Chorus: 8 types ■ Multi Chord Memory Preset Chord: 16 sets x 12 chord forms, User Chord: 8 sets x 12 chord forms ■ Phrase/Arpeggio Phrase Template: over 200,

User Style (RS-70 only): 8, User Arpeggio: 8 ■ Storage (RS-70 only) 3.5 inch floppy disk (2HD/2DD) ■ Display 20 characters, 2 lines (Backlit LCD) ■ Controllers Pitch Bend / Modulation Lever, 1, D Beam Controller: 1, Control Knobs: 5 ■ Connectors Output Jack: L (MONO), R, Phones Jack: 1, Hold Pedal Jack: 1, Control Pedal Jack: 1, MIDI Connector: IN, OUT, USB Connector: 1 (USB-MIDI, RS-70 only) ■ Power Supply DC 9V (AC adaptor) ■ Current Draw RS-70: 2,000 mA, RS-50: 1,000 mA ■ Dimensions 1,033 (W) x 294 (D) x 103 (H) mm, 40-1/16 (W) x 11/9/16 (D) x 4-1/16 (H) inches ■ Weight RS-70: 5.8 kg, 12 lbs. 13 oz., RS-50: 5.5 kg, 12 lbs. 2 oz.

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RD-170 Digital Piano

Roland®

The Perfect Stage Piano for Beginner or Pro.

With its attractive looks, improved weighted hammer-action keyboard and 64 world-class piano and instrument sounds, the new RD-170 Digital Piano is a worthy addition to Roland's acclaimed stage piano lineup. New half-pedal recognition and Master Keyboard functions make this lightweight instrument perfect for professional players, while the RD-170's affordable price keeps it within reach of all musicians.



*Product pictured is a prototype model. Actual product appearance may be subject to change.

- Affordable 64-voice digital piano ideal for students and stage performers alike
- 88-note weighted hammer-action keyboard with improved touch response
- 64 high-quality Tones including an amazing stereo grand piano and more
- New Master Keyboard functions for controlling external MIDI modules
- 16 Programmable Setups allow instant recall of custom settings
- New half-pedal recognition for sustained playing just like an acoustic piano
- Split and Layer functions for dividing the keyboard or playing two Tones at once
- Onboard 2-track recorder makes recording performances easy

Professional Quality at an Affordable Price

The RD-170 is a marvel of design. Inside this sleek, lightweight package is a surprisingly powerful digital piano with features that rival instruments costing much more. From its improved weighted hammer-action keyboard to the simplified front panel and classy wooden end bells, the RD-170 simply outshines the competition.

Legendary RD Piano Sounds and More

As one might expect, the RD-170's piano sounds are nothing less than phenomenal. The acoustic grand piano is a real standout; thanks to stereo sampling, every nuance can be faithfully captured. Of course, there's also a selection of fine instrument Tones ranging from electric piano and strings to organs, mallets and more—64 Tones in all.

Convenient Master Keyboard Functions

Whether taking advantage of the onboard Split and Layer functions to play the internal sounds, or controlling a rack of MIDI modules, you'll love using the RD-170 as your master keyboard. With controller functions built-in, you can play and control external MIDI modules simultaneously—all with minimal fuss. The RD-170's 16 programmable setup memories make it easy to save and recall custom settings—great for performance.

New Half-Damper Capabilities

With new half-pedal recognition, the RD-170 takes on all the expressiveness of an acoustic grand piano. When used with the supplied Damper Pedal, this technology allows the RD-170 to sense pedal positions other than just "On" and "Off." The result is more natural sustained playing that captures the true spirit of an acoustic piano.

Built-In Song Recorder and More

The RD-170's onboard 2-track recorder makes capturing a performance ultra-intuitive. Or if you don't feel like playing, simply listen to one of 16 outstanding demo songs. A built-in metronome makes it easy for students to stay on beat while practicing. Whether for home use or on stage, the RD-170 has the features you need most at a price you can afford.



RD-170 Specifications

■ **Keyboard** 88-key hammer-action (new) ■ **Max polyphony** 64 (Max.) ■ **Tones** 64 TONES, 16 Family, 4 tones for each family ■ **Slider Controls** Master Volume, Brilliance, Volume Upper/Layer ■ **Display** 7-seg (3-digit) LED ■ **Play mode** Split, Dual, Full ■ **Master Tuning** (0.1 Hz Steps) 415.3Hz, 466.2 Hz ■ **Transpose** (-6 / +5 Semitone step) ■ **Effects** Reverb 8 levels, Chorus 8 levels, Resonance 8 levels ■ **Touch control** 4 types of Touch Sensitivity ■ **Tuning** 7 Temperament Scale ■ **Pedals** Damper (Half

damper recognition), Soft/Sostenuto (selectable) - Expression (auto detected) ■ **Sequencer** tracks 2 tracks ■ **Sequencer note** 5,000 notes ■ **Metronome** Beat: 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 3/8, 6/8, 9/8, 8 volume levels ■ **Setup (Perform.)** Yes ■ **Master kbd. func.** Yes ■ **Demo** 16 ■ **Connectors** Pedal jack x2, Headphone Jack x2 (Stereo), MIDI In/Out, Output L/M-R ■ **Power supply** AC mains ■ **Dimensions (mm)** TBD ■ **Weight** 18.0 Kg ■ **Supplied accessories** Owner's Manual, Power cable, Music rest, Damper Pedal

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F-100-BK Digital Piano

Roland®

The Popular F-100 In Black!

The F-100-BK Digital Piano is a new black cabinet version of the original F-100. While the color is new, this compact and stylish piano still sounds and feels like a fine concert grand—thanks to an 88-note Progressive Hammer-Action Keyboard, fixed pedals and a specially designed speaker system. The F-100 also includes a matching keyboard cover and cool acrylic music rest, plus a built-in Song Recorder, onboard rhythms and more.



*Actual product appearance may be subject to change.

- 64-voice digital piano with stylish, contemporary design and built-in speakers
- 88-note Progressive Hammer-Action Keyboard for realistic touch
- Includes 20 of Roland's finest piano and instrument sounds
- Superior sound quality via high-performance speakers built into the stand
- Transparent acrylic music stand and removable keyboard cover
- Fixed damper and soft pedals for more expressive playing
- Onboard reverb for true concert hall sound
- 60 preset songs, Rhythm function, song recorder and dual headphone jacks
- Available in new black cabinet (F-100-BK) or original simulated maple finish (F-100)

Two Eye-Catching Colors

With a choice of two cabinet finishes, there's an F-100 Digital Piano that's right for you. The original F-100's maple finish looks great with contemporary interiors, while the new F-100-BK's traditional looks work well in a variety of settings. The choice is yours...

Realistic Sounds and Keyboard Touch

Playing the F-100-BK is a truly exhilarating experience, thanks to Roland's next-generation stereo-sampled piano sounds. Every nuance of an acoustic grand has been faithfully captured—from the strongest forté to the most delicate pianissimo. To complement these sounds, the F-100-BK features an 88-note Progressive Hammer-Action Keyboard. Developed

through years of research, this exclusive key mechanism uses real hammers with a touch that's heavier in the lower range and lighter in the upper range.



A Variety of Instruments and Practice Features

In addition to piano sounds, the F-100-BK features a range of realistic-sounding instrument Tones ranging from electric piano and strings to choir and bass—20 sounds total! Convenient Split Preset and Layer functions let you play duos or layer sounds. For practice, the F-100-BK features a built-in metronome with 16 rhythm variations and an easy 2-track Song Recorder. A stereo Line input lets you play along with CDs, while 60 preset piano pieces offer instant listening enjoyment.

F-90-BK Digital Piano

Space-Saving Cabinet Design.

The F-90-BK Digital Piano puts Roland's Progressive Hammer-Action Keyboard, stereo-sampled piano sounds, onboard speakers and more in a sleek, modern-looking cabinet designed to occupy minimal space in your home.

- Affordable 88-note digital piano with premium features and modern style
- High-quality piano sounds and exclusive Progressive Hammer-Action Keyboard
- Onboard instrument sounds like electric piano, organ and strings
- Metronome function and dual headphone jacks for practice
- Special dual-speaker system designed to compliment cabinet acoustics



F-100/90-BK Specifications

[Keyboard] ■ Keyboard 88 keys (Progressive Hammer Action Keyboard) ■ Touch Sensitivity Light, Medium, Heavy, Fixed ■ Keyboard Mode Whole, Dual (adjustable volume balance) [Sound Generator] ■ Maximum Polyphony 64 voices ■ Tones [F-100-BK]: 5 groups 20 variations, [F-90-BK]: 10 ■ Effects Reverb (5 levels), Chorus (fixed for E. Piano only), Sympathetic Resonance (fixed for Piano only) ■ Key Transposition -6 to +5 (in units of semitone) ■ Master Tuning 415.3 Hz to 466.2 Hz (adjustable in increments of 0.1 Hz) [Metronome, Rhythm] ■ Beat 0, 2, 3, 4, 6 ■ Rhythm (F-100-BK only) 16 patterns ■ Volume 5 levels [Recorder (F-100-BK only)] ■ Tracks 2 tracks ■ Song 1 song ■ Note Storage Approx. 5,000 notes ■ Tempo

Quarter note = 20 to 250 ■ Resolution 96 ticks per quarter note ■ Control Play/Stop, Rec, Tempo, All Song Play, Track Select [Preset Songs] 60 songs [Others] ■ Speakers 12 cm x 2 ■ Rated Power Output 5 W x 2 ■ Pedals [F-100-BK]: Damper, Soft (fixed dual pedal), [F-90-BK]: Damper (detachable single pedal) ■ Connectors Headphones Jack (Stereo miniature phone type) x 2, MIDI Connectors (In, Out), Output Jacks (L/Mono, R), Input Jacks (L/Mono, R), Pedal Jacks (Damper, Soft) ■ Power Supply DC 9 V (AC Adaptor) ■ Current Draw 2,000 mA ■ Dimensions (without the music stand) 1,337 (W) x 295 (D) x 772 (H) mm, 52-11/16 (W) x 11-5/8 (D) x 30-7/16 (H) inches ■ Weight [F-100-BK]: 39 kg / 86 lbs, [F-90-BK]: 36 kg / 79 lbs, 6 oz.

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Cube-30 Bass

Roland®

A Compact Bass Amp with COSM Modeling and More!

When it comes to compact bass amplifiers, the Roland Cube-30 Bass is in a class all its own. This powerful and lightweight amp combines a 30-watt/10-inch 2-way speaker with DSP modeling to crank out a range of popular bass amp sounds. There's also onboard compression, 3-band EQ and digital effects—making the Cube-30 Bass an incredible value.

COSM
FFP



*Product pictured is a prototype model. Actual product appearance may be subject to change.

- Compact bass amplifier with 30-watt/10" coaxial 2-way speaker design
- 6 types of COSM® bass amp models including octave bass sound
- Convenient Shape switch for easy tonal variation
- 5 high-quality DSP effects: reverb, delay, chorus, flanger and T-Wah
- Onboard 3-band EQ and compression with simple knob-based controls
- Recording/Head phones output; Auxiliary and Footswitch inputs

Tight, Punchy Sound

The Cube-30 Bass gives bass players loud and punchy bass tones despite its compact size. Using a 30-watt amp and 10-inch coaxial speaker system—with powerful low end and an individual tweeter for clearer highs—this compact amp will knock your socks off! Onboard compression and 3-band EQ let you shape the tone any way you want.

COSM Bass Amp Modeling

Thanks to Roland's COSM technology, the Cube-30 Bass can convincingly model six of your favorite bass amps—like "Bass360," "Concert 810," "Flip Top," "B Man" and more. There's even an "Octave Bass" setting which adds a tone one octave below the original note for truly earth-shaking sound.



Onboard DSP Effects

With onboard DSP effects, you can plug in your bass without complicated setups. The Cube-30 Bass includes everything you need: pro-quality reverb and delay, plus essentials like chorus and flanger. There's even a T-Wah effect for adding a sweeping filtered sound to your tone—great for funk bass.

A Marvel of Convenience

Whether practicing at home or tracking in the studio, the Cube-30 Bass can get the job done. With a 1/4-inch Recording/Headphones output, you can connect directly to a mixing console or to a pair of headphones. A dedicated Shape switch makes it easy to instantly change your tone. Nothing else compares to the Cube-30 Bass!

Cube-30 Bass Specifications

■ **Rated Power Output** 30W ■ **Nominal Input Level** (1 kHz) INPUT: -20dBu/1MΩ, AUX IN: -10dBu ■ **Speaker** 10" (25cm) + Tweeter (Coaxial type) ■ **Controls** COMPRESSION knob, SHAPE button, COSM AMP TYPE knob (OCTAVE BASS, FLIP TOP, B MAN, T.E, BASS360, SESSION, CONCERT810), GAIN knob, VOLUME knob, BASS knob (EQUALIZER), MIDDLE knob (EQUALIZER), TREBLE knob (EQUALIZER), EFX (CHORUS, FLANGER, T-WAH) knob, DELAY/REVERB, POWER switch ■ **Indicators** COMPRESSION, EFX, POWER ■ **Connectors** INPUT jack (1/4" phone type), AUX IN jack (stereo 1/4" phone type), RECORDING OUT/HEADPHONE jack (stereo 1/4" phone type), FOOT SW jack (EFX on/off, DELAY/REVERB on/off) (stereo 1/4" phone type) ■ **Power Supply** AC117V, 230V or 240V ■ **Power Consumption** 34W ■ **Dimensions** 385 (W) x 300 (D) x 380 (H) mm, 15-13/16 (W) x 11-13/16 (D) x 15 (H) inches ■ **Weights** 13 kg/28 lbs 11 oz ■ **Accessories** Owner's Manual ■ **Options** Footswitch FS-5U (BOSS), Connection cable PCS-31

* 0 dBu = 0.775V rms

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These Guitar Amps Can Pack a Punch!

- Compact guitar amps in 30-watt/10" speaker (Cube-30) or 15-watt/8" speaker (Cube-15) design
- 2-channel configuration with incredible overdrive and distortion sounds
- 3-band EQ for precise tone shaping
- Recording/Headphone output for silent recording and practice
- Auxiliary input for connecting audio sources like CD players or drum machines



BR-864 8-Track Digital Studio



8-Track Digital Recording to Go.

The BOSS BR-864 puts 8-track digital recording in the palm of your hand. Never has so much power been available in such a small package. With features like 64 Virtual Tracks, onboard COSM® effects, Compact Flash media for recording and a built-in USB port, the BR-864 has everything guitarists and songwriters need to turn ideas into songs.



*Product pictured is a prototype model. Actual product appearance may be subject to change.

- Compact 8-track digital recording studio with intuitive BOSS-style operation
- Uses 128MB Compact Flash media (included) for over 60 minutes of recording time
- 8-track simultaneous playback; 64 Virtual Tracks (V-Tracks) for recording
- Insert/Loop effects with COSM Guitar Amp Modeling and Bass Simulator, plus new wah effects, guitar synth and Harmonist
- Programmable Rhythm Guide drum track with Tone Load function
- New dedicated track EQ for all 8 playback tracks
- Instrument/Hi-Z Instrument input, XLR and 1/4" Microphone inputs, plus stereo RCA Line input
- USB port for .WAV/AIFF file exchange with PCs; S/PDIF digital output
- Built-in microphone and battery power for recording any time, any place

Affordable and Portable

The BR-864 is not only BOSS' smallest 8-track recorder, but it's also our most affordable. With 64 Virtual Tracks, there's plenty of room to track multiple overdubs, vocals and instruments. A 128MB Compact Flash card comes standard, giving you over an hour's worth of high-quality recording time.

Easy USB File Exchange and Data Backup

A built-in USB port makes it easy to import and export audio with USB-equipped computers. Now you can load and convert .WAV/AIFF files from your Mac or PC directly into a track, or export your song for CD-burning and MP3 creation. The USB port also makes for a great way to archive and back up recordings to your computer's hard drive.

A World of High-Quality Effects

Thanks to COSM modeling, guitarists can plug right into the BR-864 and get killer tone every time. Simply choose from several COSM Amp Models and you'll sound huge. There's even a Bass Simulator that lets you lay down bass from a guitar—plus several new effects like wah, guitar synth and a Harmonist for scale-intelligent pitch shifting.

Rhythm Guide Redux

The Rhythm Guide function has been beefed up considerably for the BR-864. First, BOSS added full programmability, meaning you can tap in your own drum patterns in addition to the dozens of great-sounding presets. A new Tone Load function lets you add custom drum sounds by importing .WAV/AIFF files. Best of all, the Rhythm Guide doesn't use any of the 64 recording tracks, so you still get eight playback tracks and drums.

Guitar-Friendly Features

While anyone can benefit from the BR-864's portability and power, guitarists in particular will appreciate having a dedicated Hi-Z input and onboard tuner. There's also a Phrase Trainer function that lets you slow down riffs, making them easier to learn. And since the BR-864 runs on batteries, you can take this little 8-track studio anywhere.



BR-864 Specifications

■ **Tracks** Track: 8, V-Track: 64 (8 V-Tracks per each Track) * Up to 2 tracks can be recorded simultaneously, and up to 8 tracks can be played back simultaneously.
■ **Useful Capacity** CompactFlash: 32MB to 1 GB ■ **Data Type** HiFi (MT2), STANDARD (LV1), LONG (LV2) ■ **Sample Rate** 44.1 kHz ■ **Frequency Response** 20 Hz to 20 kHz (+1/-3 dBu)

■ Recording Time (1 track)

	32 MB	64 MB	128 MB	256 MB	512 MB	1 GB
HiFi (MT-2)	16 min	32min	65 min	130 min	260 min	520 min
Standard (LV1)	19 min	39 min	78 min	156 min	312 min	624 min
Long (LV2)	24 min	49 min	98 min	196 min	392 min	784 min

* The above-listed recording times are approximate. Times may be slightly shorter depending on the number of songs that were created.

* The above number is the total for all the tracks that are used. If each of the eight tracks contain an equal amount of data, the length of the resulting song will be approximately 1/8 of the above.

■ **Nominal Input Level (Variable)** GUITAR/BASS jack: -24 dBu, MIC (Phone/XLR)

jack: -44 dBu, LINE jack: -16 dBu ■ **Input Impedance** GUITAR/BASS jack: 1 M Ω , MIC (Phone/XLR) jack: 8.9 k Ω (HOT-COLD), 8.2 k Ω (HOT-GND, COLD-GND), LINE jack: 15 k Ω ■ **Nominal Output Level** LINE OUT jack: -10 dBu ■ **Output Impedance** LINE OUT jack: 2 k Ω , Headphonejack: 147 Ω ■ **Recommended Load Impedance** LINE OUT jack: 20 k Ω or greater, Headphonejack: 8 to 50 Ω ■ **Residual Noise Level** LINE OUT jack: -85 dBu or less (INPUT SELECT: GUITAR/BASS, input terminated with 1 k Ω , INPUT SENS: CENTER, IHF-A, typ. EFFECT: off) ■ **Interface** USB Connector, DIGITAL OUT (Optical type) ■ **Connectors** GUITAR/BASS jack (1/4 inch phone type), MIC jacks (TRS Balanced 1/4 inch phone type/XLR type), LINE IN jack L/R (RCA Phono type), LINE OUT jack L/R (RCA Phono type), DIGITAL OUT Connector (Optical type), FOOT SW/ EXP Pedal jack (stereo 1/4 inch phone type), MIDI OUT Connector, Headphone Jack (Stereo 1/4 inch phone type) ■ **Power Supply** DC 9 V; Supply AC Adaptor (PSA series), Dry batteries x 6 ■ **Current Draw** 200 mA * Expected battery life under continuous use: Alkaline: 5 hours, These figures will vary depending on the actual conditions of use. ■ **Dimensions** 322 (W) x 225 (D) x 69 (H) mm, 12-11/16 (W) x 8-7/8 (D) x 2-11/16 (H) inches ■ **Weight** 1.65 kg/3 lbs. 10oz. (excluding batteries)

* 0 dBu = 0.775V rms

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